Name: Date:

FOIL when $A \neq 1$ solution (version 0)

FOIL the expressions shown below:

1. $(-6x - 3)(7x + 2)$

$$(-6)(7)x^2 + (-6)(2)x + (-3)(7)x + (-3)(2)$$
$$(-42)x^2 + (-12)x + (-21)x + (-6)$$
$$-42x^2 - 33x - 6$$

2. $(4x - 8)(7x + 4)$

$$(4)(7)x^2 + (4)(4)x + (-8)(7)x + (-8)(4)$$
$$(28)x^2 + (16)x + (-56)x + (-32)$$
$$28x^2 - 40x - 32$$

3. $(3x - 4)(7x + 3)$

$$(3)(7)x^2 + (3)(3)x + (-4)(7)x + (-4)(3)$$
$$(21)x^2 + (9)x + (-28)x + (-12)$$
$$21x^2 - 19x - 12$$

4. $(-5x + 7)(2x + 2)$

$$(-5)(2)x^2 + (-5)(2)x + (7)(2)x + (7)(2)$$
$$(-10)x^2 + (-10)x + (14)x + (14)$$
$$-10x^2 + 4x + 14$$

5. $(2x + 7)(5x + 8)$

$$(2)(5)x^2 + (2)(8)x + (7)(5)x + (7)(8)$$
$$(10)x^2 + (16)x + (35)x + (56)$$
$$10x^2 + 51x + 56$$

FOIL the expressions shown below:

6. $(8x-4)(3x-6)$

$$(8)(3)x^2+(8)(-6)x+(-4)(3)x+(-4)(-6)$$
$$(24)x^2+(-48)x+(-12)x+(24)$$
$$24x^2-60x+24$$

7. $(2x-4)(-2x-3)$

$$(2)(-2)x^2+(2)(-3)x+(-4)(-2)x+(-4)(-3)$$
$$(-4)x^2+(-6)x+(8)x+(12)$$
$$-4x^2+2x+12$$

8. $(-4x+3)(-3x-7)$

$$(-4)(-3)x^2+(-4)(-7)x+(3)(-3)x+(3)(-7)$$
$$(12)x^2+(28)x+(-9)x+(-21)$$
$$12x^2+19x-21$$

9. $(-8x+7)(6x-8)$

$$(-8)(6)x^2+(-8)(-8)x+(7)(6)x+(7)(-8)$$
$$(-48)x^2+(64)x+(42)x+(-56)$$
$$-48x^2+106x-56$$

10. $(-4x-2)(-7x-7)$

$$(-4)(-7)x^2+(-4)(-7)x+(-2)(-7)x+(-2)(-7)$$
$$(28)x^2+(28)x+(14)x+(14)$$
$$28x^2+42x+14$$